



Tamper evident labeller



Picture: LSS

From February 2019 on, the European Falsified Medicines Directive (FMD) 2011/62/EU will be mandatory for the pharmaceutical industry within the EU. The tamper evident labeller from LSS complies with the directive and ensures tamper proof security of cartons. As an option, a laser or inkjet printer and a vision system of any brand can be integrated to provide each carton with a unique identification for track and trace and serialisation. The machine is operated with a user-friendly HMI. The flexible solution handles cartons ranging from 50 to 220 mm in width, 15 to 120 mm in height and 40 to 120 mm in length. A small footprint allows the machine to fit into any production area easily.

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Pneumatic dense phase conveying system

Gericke developed a small conveying pressure vessel, which, with its 20 l volume, requires only the headroom of 660 mm. The PTA/PHF 20 conveyor sender is particularly suitable for installation under sack tipping and big bag stations, dust filters or storage containers, although performing with a throughput of 1.5 m³/h and achieving distances of up to 50 m. It is equipped with a level

probe and the additional air volume control makes the conveying even more efficient. As a continuous double-conveyor system even throughputs of up to 8 m³/h are possible. The dense phase conveying can be carried out either as product-gentle plug conveying or thrust conveying. The STP 61 machine controller ensures trouble-free and fast commissioning. Furthermore, communication with higher-level control systems is possible via interfaces such as Ethernet/IP, Profibus DP, Profinet RT and Modbus/TCP. PTA/PHF 20 is suitable from fine powders up to granules of 15 mm. Even very light products with bulk densities of 0.1 kg/l up to very heavy steel balls of 5 kg/l have already been conveyed successfully.

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Orbital weld heads for stainless-steel pipes

By using HX-series orbital weld heads from Orbitalum, pipe elbows can be joined to small stainless-steel pipes, e.g. in heat exchanger constructions, with a high level of efficiency and reliability. Orbitalum is expanding this series to include the HX 12P, which is specially designed for very compact fin heat exchangers using pipe diameters from 9.5 to 13.3 mm.

Pre-mounted pipe elbows, even those in tight pipe bundles, can be welded reliably and quickly with this technology. Thin-walled stainless-steel pipes with

wall thicknesses of 0.5 to 0.8 mm can be processed. Compared to manual work, the preparation time is reduced by around 50 %. The welding time is only around 30 s per pipe, and up to 250 welds per head and layer can be made in this way. HX heads make it possible to build very compact heat exchangers with a high pipe density and thus a high degree of efficiency. Pipe spacings of less than 40 mm are possible. To facilitate handling, Orbitalum heads are connected to the welding power source with a flexible 7.5 m hose. The HX 12P also scores with its straight design, which enables easy turning of the head at the heat exchanger.

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Picture: Orbitalum

Humidity and temperature probes

The Vaisala Humicap humidity and temperature probes HMP4, HMP5, HMP7, HMP8 and TMP1 will complement the Indigo family. The most dominant feature is their interchangeability, which minimises the downtime associated with maintenance. The probes interchangeable nature makes calibration and replacing them also convenient.

The launched probes share functionalities like chemical purge and sensor heating. The HMP7 features also warmed probe technology, which enables accurate measurements in highly condensing environments. All the HMP probes are equipped with the Humicap R2 composite sensor. It gives unparalleled corrosion resistance to the sensor particularly in acidic environments. All of the released probes are also resistant to dust and most chemicals, and their smooth surface is easy to clean. The Indigo family members are compatible with the Insight PC software, which allows convenient setup, diagnostics and field calibration. The probes can also be used without Indigo host device through Modbus protocol.

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Picture: Gericke